

New Method of ~~XXXXXXXXXX~~ Investigating Plastic
Deformation of Ferromagnetic Crystals, by N. S. Akulov,
N. Z. Miryasov.

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An Accurate Solution of Langmuir's Problem for
a Spherical Capacitor, by V. L. Man.

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Sci - Physics

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May 1956

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"The Form of a Field of Electrostatic Lenses" 8 pp

V. V. Sorokind, P. V. Timofeyev

NRL Translation 184
Copy in file safe

64T90

ZHUR TEKHN FIZIKI VOL XVIII, No 5

May 1948

6 pp

"The Problem of Ionization of Atoms and Neutralization
of Ions on the Surface of a Semiconductor Cathode"

N. D. Margulis

Brookhaven Nat'l Lab
Guide Vol 2, No 9

75T100

ZHUR TEKH FIZIKI

Vol XVIII, No 5, 1948

pp 652-656 4 pp

"Excitation of a Semi-Infinite Radio Wave Guide
Through a Slit in the Base"

M. L. Levin

Available at Brookhaven

See guide go Russ Sci Per Lit, Vol. 2, No 3, Page 118

75T101

Johns Del #2 Val (XVIII) #5 pp 537-42 (1947)
192

Molecular Theory of Friction

W. S. Johnson

RLL Trans. # 167
(Copy in R. Rinto's file.)

FSTC HT-23-79-68

R-9387-D SF

26 Apr 68

Reflections of Spherical Waves at Weak Interfaces

By:

From: Journal of Technical Physics (USSR), v. 8, 1968:

473-483

(10 pp)

Russian - est for wds:

Please translate and type 1 camera ready copy. Please
prepare Data Handling Page. Document can be cut.To Typist: Please make covers as samples attached: 1
hard cover, 1 inside cover, distribution list as the
last page of translation. HT-23-79-68

DC Office make 3 xerox copies.

Use of a Discharge in a Gas for the Preparation
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V. N. Rozhdestvenskiy, 5 pp.

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Mar 83

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A Calorimeter for Determination of Specific and
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NLL. M.4541.

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Apr 62

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Minsk, Byelorussian SSR.

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On the Kinetics of Two-Phase (Eutectic)
Crystallization, by B. Ya. Pines, 21 pp.

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SLA 60-16953

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Vol. IV, No 8
2 Jun 62

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Mixture, by A. A. Zaitsev, 7 pp.

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No 7, 1948, pp 949-954.

Sci Tr Center
RT-1445

Scientific - Physics

18, 716

ZHUR TEKH FIZ VOL XVIII, No 8

Aug 1948

26 pp

"Nondiffused (Martensitic) Type of Conversion in Alloys"

G. V. Kurdyumov

Brookhaven Nat'l Lab
Vol 2, No 9

10/49T94

KURDYUMOV, G. V.

Journal of Technical Physics, Ussr., vol. 18, no. 8,
7 figures, 1 table, 3500-word part translation; 1948.

Diffusionless (Martensitic) Transformations in
Alloys. Part I

ARTS - 5

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Two Methods for Determining the Illumination From
Large Surfaces, by S. G. Yurov, 22 pp.

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pp 1073-1083.

SLA 60-13737

Sci

190, 282

Apr 62

Vol IV, No 6

Shrinkage and Properties of Powder Compacts as
Function of Their Density, by N. Ya. Pol'shin.

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Brutcher Tr No 2227

Scientific - Min/Metals

\$4.55

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The Causes of the Phenomenon of Metastable States During Crystallization, (Does Ostwald's Law of Stages Hold Good in the Crystallization Theory?), by N. N. Sirota, 16 pp.

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Kostenets, V. I., Lazarev, B. F. and others
RESILIENCE OF METALS AT -253° C. [1963]

[12]p. (refs. omitted).

Order from OTS or SLA \$1.60

63-14488

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1948, v. 18, no. 9, p. 1147-1155.

DESCRIPTORS: *Metals, *Elasticity, Mechanical
properties, *Low temperature research, Copper,
Brass.

A rapid measuring method of the resilience of samples
at temperatures of liquid nitrogen and liquid hydrogen
(-196° and -253° C) is presented. Resilience measure-
ments were made at -196° and -253° C on three types
of metals: Copper M-3, brass LS-62 and brass LS-59.
(Author)

(Metallurgy, TI, v. 10, no. 2)

63-14488

I. Kostenets, V. I.
II. Lazarev, B. F.

Office of Technical Services

Magnetic Susceptibility of an Austenitic Steel, by N.
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is translation.

SIKAT, per, Zhurnal Tekhnicheskoi Fiziki, Vol XXIV,
1994, pp 1207-1209.

Brutcher Tr No 2551

BR

identific - Magnetic, austenitic, steel

Investigation of Process of Density Increase of
Single-Phase Metal-Powder Compacts. Part III: Re-
lationship Determining the Volume Changes of Metal-
Powder Compacts During Sintering (in Reply to M. Yu.
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Brutcher Tr No 2987

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Dec 54 (TB/DIX

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Properties of Poorly Conducting Layers Between the
Metal and the Semiconductors, by V. E. Lashkarov,
20 pp.

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Investigation of the Process of Journalist's Persecution
in the Censoring of Single-Passport Journal
Letter Composed, by M. Yu. Bal'shin.

ISSUES, Zhurnalista, Vol XVIII, No 10, 1948,
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Article - "The Journalist"

15038
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Vol XVIII, No 11, ~~8~~ pp, Nov 48

"Physical Properties of Silver Sulfide Photoelements"

V. Ye. Kosenko
Ye. G. Miselyuk

Available at Brookhaven

See guide to Rus Sci Per Lit, Vol 2, No 4, Page 156
" " " " " " " Vol 2, No 8, Page 288
" " " " " " " Vol 2, No 11, Page 381

18/49T107

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Vol XVIII, No 11, 16 pp, Nov 46

pp 1378-1393

"Radiation Through Gaps of Hollow-Space Oscillations as
an Analogy of the Tunnel Effect"

P. Ye. Krasnushkin
Ye. R. Mustel

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See Index Aero

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Rectification at the Boundary of Two Semi-Conductors,
by A. V. Joffe, 15 pp.

Full translation.

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RF 1498-1510-SLR 62-1612

CIA/FDD Z-27

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Scientific - Electricity, Semi-conductors, Current

Oct 52 CDS/DEX

Theory of Symmetric Waves in a Cylindrical Wave-
guide with an Open End, by L. A. Vainshtein,
27 pp.

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1948, pp 1543-1564.

Sci Tr Center
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Scientific - Physics

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Vol XIX, No 1, 7 pp, Jan 49

"The Magnetic Structure of Highly Coercive Alloys: I,
Some Peculiarities of Magnetization Curves and
Hysteresis Loops in Highly Coercive Alloys of Alnico and
Vikalloy"

L. A. Shubina
Ya. S. Shur

AEC/BNL/tr-134

24/49T113

ZHUR TEKH FIZ

Vol XIX, No 1, 5 pp, Jan 49

"The Magnetic Structure of Highly Coercive Alloys: II,
Effect of Thermomagnetic Treatment on the Electric Re-
sistance of Highly Coercive Alloys of Alnico"

V. I. Drozhzhina
M. G. Luzhinskaya
Ya. S. Shur

AEC/BNL/tr-116

24/49T112

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... of high-nickel alloys of the ...
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New Accelerators for Charged Particles, by
A. P. Grinberg, 55 pp.

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Scientific - Physics
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Computation of the Focusing of Ultrasound, by
A. I. ~~Il'inskiy~~ Gubanov,

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Vol XIX, No 1, 1949, pp 30-33.

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Apr
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The mechanics of elasto-visco-plastic bodies. I.
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by A. I. Gubonov.

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On the Cause of Nonlinearity of the Voltampere
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Ultra-Acoustic Microscope, by S. Ya. Sokolov, 3 pp.

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ACSI. Tr No 424, May be same as AMC F-TS-7252 and
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Photoelectric Photometry of Small Light Fluxes, by
A. L. Oshegovich, Ye. N. Pavlova, S. P. Rodionov,
L. M. Pishkova, 32 pp.

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New Optical Method of Studying Stresses in Polarized Light, by A. V. Stepanov, 19 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol. 19, No 2, 1949, pp 205-217.

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The Effect of Sulfur Impurity on the Electrical
Properties of Selenium by N. V. Afanas'ev.

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Hardenability of Steel With Small Boron Contents
(Some Problems of the Physics of Hardenability), by
S. M. Vinarov.

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Absorption of Ultrasonic Waves by Single Crystals,
by S. Ya. Scholov

RUSSIAN, per, Zhur Tekh Fiz, ~~XXXXXXXX~~ Vol 19, 1949,
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UNDER HYDROSTATIC PRESSURE. 1964, 9p
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Office of Technical Services

zh zhu ty

Vol 19, #3, pp 421-30 (1949)

Micro-Mechanical Methods for Examining
Materials

I. H. Kautzman +
J. B. Friedman

Done by, see also Lit
Et-Brit # 50/1892

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Vol 19, #4, p465-70 (1949)

Origin + Development of Cracks in Squeezed
States of Heterophase Structure.

I. A. Chelkar

N. V. Yakubovich

Dokl. Akad. Nauk Lit,
S. B. — 10/1891

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Vol XIX, No 4, 14 $\frac{1}{4}$ pp,
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"Cleavage Phenomena"

A. V. Stepanov

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Investigation of Mechanical and Piezo-Optical
Properties of Silver Chloride Crystals, by S. O.
Tsobkello, 25 pp¹⁸

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Kinetics of the First Stage of the Martensite Decomposition, by G. Kurdymov; L. Lysak

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pp 582-584.

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Scientific - Physics

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Regularities in the Magnetic Properties of Macro-
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Al'tman, L. Sh. Kazarovskiy, V. L. Mamedov.

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Ref 8.60.566

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The Increase in Stability of Combustion in
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Spark Systems, for Purposes of Spectral
Analysis, by L. B. Abramson, O. B. Pal'mova,
11 p.

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Study of Zinc Diffusion in An Alpha-AlCuSi Alloy in the Temperature Range 400-750°C, By S. D. Gertsriken et al. RUSSIAN, per, Zhur. Tekhn. Fiz., Vol. 19 1949, pp. 769-772.
*CFSEI TT 70-57014

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"Magnetic Anisotropy of Binary Alloys With a Nickel
Base"

I. M. Puzey,

Done by AEC - Tr #241
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Mechanical Strength of Carbon Steels at High Temperatures by M. A. Zaikov.

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A. I. Gubanov

The mechanics of elasto-visco-plastic bodies. III.

Torsion of a circular cylinder

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Vol 19, No 7, pp 773-81

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"The Mechanics of Elasticoviscoplastic Bodies: IV,
Tension and Compression in Prisms"

A. I. Gubanov

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62/49T105

Constants of Energetic Anisotropic Ternary Ni-Cu-Mo
Alloys, by N. S. Akulov, O. I. Blokhina, K. M.
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CTS 73/Oct 55

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Coercive Force of Quenched 1% C, 1.5% Cr Steel,
by B. K. Vainshtein, B. G. Livshits

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GTS/DEX Price \$9.85

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The Theory of Sound Waves in Open Tubes, by
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P. Ye. Krasnushkin
R. V. Khoklov

Done by AEC, Tr #239
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Vol XIX, No 9, 1949

"The Influence of Large-Scale Turbulence Upon the
Propagation of Sound in a Turbulent Medium"

M. G. Odintsov
I. G. Shaposhnikov

Translated by USAFSS
OID, Directorate of Operations
Brooks Air Force Base, Texas
AF-200086

Copy in files
Done by ONI, F2 5045-50 (See 16 Nov Abst. listing) 149T101

ZHUR TEKH FIZ

Vol XIX, No 9, 2 pp, 1949

"Letter to the Editor"

N. D. Morgulis
P. G. Borzyak
B. I. Dyatlovitskaya

Done by Navy
NRL No. 251

149T96

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Vol XIX, No 9, 5 pp, 1949

"Temperature of the Friction Surface Between Solids
(A Theoretical Error in Bowden's Work)"

M. P. Levitskiy

Done by Sci Mus Lit,
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149T85

The Effect of Large-Scale Turbulence on the
Amplification of Sound in a Turbulent Medium,
by M. G. Odintsov, I. G. Shaposhnikov, 10 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIX, No 9, 1949,
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AF 200086

Scientific - Physics
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Thickness of Silver Halide Crystals of Photographic Emulsions. Measured by Linnik's Microinterferometer Equipped With 50X Objectives, by P. V. Meyalyar, P. Kh. Pruss, 7 pp.

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*Morris D. Freidman for Lincoln Library
(Will appear in SLA later)

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The electrical and mechanical properties of thin liquid films.

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V.P. DEGTYAREV, GETITELD: "DE INVLOED VAN
VOORSPANNINGEN OP STERKTE EN BRISHEID
(Remarks on an Article of V.P. Degtyarev, entitled:
"The Influence of Prestressing on Strength and
Crispness"), bp. MTWL: 356. (Text in Dutch).
Order from OTS or ETC \$1.35 61-17596

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1949
v. 19, no. 12, p. 1442-1444.

DESCRIPTORS: Metals, *Brittle materials, Stresses,
*Temperature.

61-17596

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- II. MTWL-356
- III. Stichting Moedijk.
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

NS
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A. E. Bryukhanov, N. G. Arasheva and E. P.
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Field" (Letter to the Editor), by R. V.
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M. P. Arbuzov.

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L. A. Vullis

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The Influence of Pressure on the Mechanism of
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Electrical Properties of Titanium Dioxide, by Ya. M.
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Proj 0335

SR 15 May 61

U.S. Army Research Office
Durham, N.C.

15 May 61

The Potential Distribution in a Spherical
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